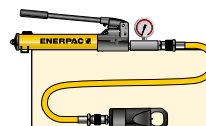


▼ Shown from left to right: NC3241, NC1019, NC1924



- Compact and ergonomic design, easy to use
- Unique angled head design
- Two blade design (NC-D models) for time saving operation – nuts are split from two sides in one action
- Single-acting, spring return cylinder
- Heavy duty chisels can be reground
- Nut splitters include spare chisel, spare set screw and wrench used to secure the chisel.
- CR400 female half coupler is standard.

**The safest and easiest way to remove corroded and frozen nuts**



#### Tool-Pump Sets

Hydraulic Nut Splitters are available as sets (pump, tool, gauge, gauge adaptor, couplers and hose) for your ordering convenience.

| Nut Splitter Model Nr. | Hand Pump Model Nr. | Nut Splitter Set Model Number |
|------------------------|---------------------|-------------------------------|
| NC1924                 | P392                | STN1924H                      |
| NC2432                 | P392                | STN2432H                      |
| NC3241                 | P392                | STN3241H                      |



#### High Pressure Hoses

Enerpac offers a complete line of high quality hydraulic hoses. To ensure the integrity of your system, specify only genuine Enerpac hydraulic hoses.

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▼ Enerpac hydraulic nut splitters – the safest and easiest way to remove corroded and frozen nuts.



#### GA45GC Gauge Adaptor Assembly

Protect yourself from system overloading by simply ordering one part number for a pre-assembled gauge, adaptor block and coupler.

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# Single-Acting Hydraulic Nut Splitters



## Frozen or Corroded Nuts

Often nuts are difficult to remove, while loosening using tightening tools is possible, it generally requires larger equipment and is time consuming. The use of cutting torches or hammers and chisels can cause damage to the joint components, requires significantly longer setup and operational time, and can present a potential safety risk.

## Hydraulic Nut Splitters

Nut splitting with the Enerpac Hydraulic Nut Splitters is the safest method. It takes less time and avoids costly damage to joint components. The head design fitted with heavy-duty chisels permits the splitting of nuts on a wide variety of applications. With the two blades models nuts are split from two side in one action.

## NC STN Series



Bolt Range:

**M6 - M48**

Hexagon Nut Range:

**10 - 75 mm**

Capacity:

**49 - 882 kN**

Maximum Operating Pressure:

**700 bar**

| For Nut Splitter Model Nr. | Replacement Chisel Model Numbers |          |
|----------------------------|----------------------------------|----------|
|                            | Moving                           | Static   |
| NC1019                     | NCB1019                          | –        |
| NC1924                     | NCB1924                          | –        |
| NC2432                     | NCB2432                          | –        |
| NC3241                     | NCB3241                          | –        |
| NC4150                     | NCB4150                          | –        |
| NC5060                     | NCB5060                          | –        |
| NC6075                     | NCB6075                          | –        |
| NC1924D                    | NCB1924                          | NCB1924D |
| NC2432D                    | NCB2432                          | NCB2432D |
| NC3241D                    | NCB3241                          | NCB3241D |

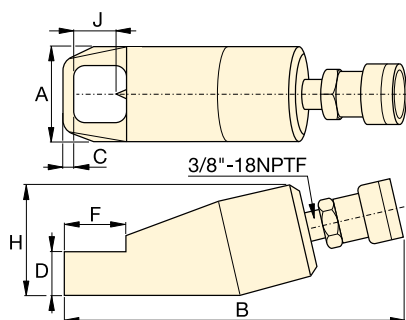


## IMPORTANT!

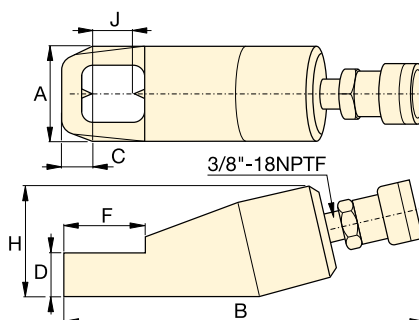
These nut splitters are only designed for **grade 8 metal nuts** which match sizes shown in the specifications chart.

These are not suited for square, star, round or stainless steel nuts. Maximum allowable hardness of nuts to be split is HRc-44.

For materials and sizes not specified, contact Enerpac Technical Services.



Single Blade Models (NC)



Double Blade Models (NC-D)

|  | Bolt Range       | Hexagon Nut Range | Maximum Cutting Force ton (kN) | Oil Capacity | Model Number    | Dimensions (mm) |     |    |    |     |     |    | (kg) |
|--|------------------|-------------------|--------------------------------|--------------|-----------------|-----------------|-----|----|----|-----|-----|----|------|
|  | (mm)             | (mm)              |                                | (cm³)        |                 | A               | B   | C  | D  | F   | H   | J  |      |
|  | <b>M6 - M12</b>  | 10 - 19           | <b>5 (49)</b>                  | 15           | <b>NC1019</b>   | 40              | 170 | 7  | 19 | 28  | 48  | 21 | 1,2  |
|  | <b>M12 - M16</b> | 19 - 24           | <b>10 (98)</b>                 | 20           | <b>NC1924 *</b> | 54              | 191 | 10 | 26 | 40  | 62  | 25 | 2,0  |
|  | <b>M16 - M22</b> | 24 - 32           | <b>15 (147)</b>                | 60           | <b>NC2432 *</b> | 64              | 222 | 13 | 29 | 51  | 72  | 33 | 3,0  |
|  | <b>M22 - M27</b> | 32 - 41           | <b>20 (196)</b>                | 80           | <b>NC3241 *</b> | 75              | 244 | 17 | 36 | 66  | 88  | 43 | 4,4  |
|  | <b>M27 - M33</b> | 41 - 50           | <b>35 (343)</b>                | 155          | <b>NC4150</b>   | 94              | 288 | 21 | 45 | 74  | 105 | 54 | 8,2  |
|  | <b>M33 - M39</b> | 50 - 60           | <b>50 (490)</b>                | 240          | <b>NC5060</b>   | 106             | 318 | 23 | 54 | 90  | 128 | 60 | 11,8 |
|  | <b>M39 - M48</b> | 60 - 75           | <b>90 (882)</b>                | 492          | <b>NC6075</b>   | 156             | 393 | 26 | 72 | 110 | 181 | 80 | 34,1 |
|  | <b>M12 - M16</b> | 19 - 24           | <b>10 (98)</b>                 | 20           | <b>NC1924D</b>  | 54              | 168 | 22 | 25 | 50  | 66  | 26 | 3,8  |
|  | <b>M16 - M22</b> | 24 - 32           | <b>15 (147)</b>                | 60           | <b>NC2432D</b>  | 64              | 275 | 25 | 31 | 65  | 78  | 33 | 5,4  |
|  | <b>M22 - M27</b> | 32 - 41           | <b>20 (196)</b>                | 80           | <b>NC3241D</b>  | 77              | 305 | 31 | 37 | 80  | 90  | 43 | 7,2  |

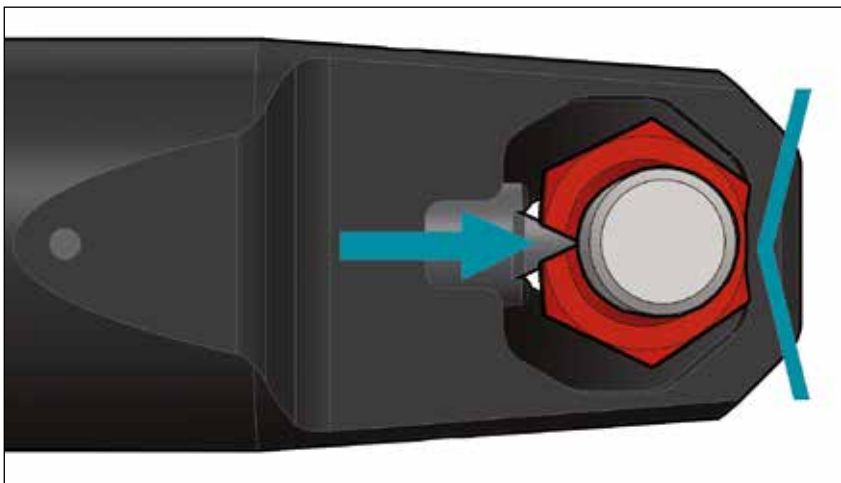
\* Available as Tool-Pump Set, see note on page 310.

▼ Shown from left to right: **NSH1927, NSC1927**



- **NSC-Series with built-in small hand pump** – useful for subsea applications and working at heights
- **Quick and easy cutting tip replacement**
- **Drop-tested revolving anchor point and safety lanyard**
- **Revolving composite handle for vibration and shock isolation**
- **Nut Splitters include set of hexagon keys and following spare parts:**
  - cutting tip,
  - tip retention screw,
  - spare alignment screw
- **CR400 female half coupler is standard (NSH).**

▼ *The sharp cutting tip and opposing convex reaction point encourages more efficient splitting by spreading the nut open rather than squashing the nut onto the stud. This makes it easier to rotate the nut for the second cut.*



**Designed to meet the challenges of bolted pipe-line flange joints**



#### **NSC-Series Nut Splitters with integral hand pump**

Powered by a built-in hydraulic hand pump, the NSC-Series are a ready-to-use tool – no need for hose, separate hand pump or couplings.



#### **Carry Case**

Nut splitters (up to NSH6575) come in a carry case for portability and easy storage.



#### **Safety Lanyard FSC1**

Standard Safety Lanyard with each nut splitter. Includes steel cable with carabiners.



# Single-Acting Integral & Hydraulic Nut Splitters



## Frozen or Corroded Nuts

Often nuts are difficult to remove, while loosening using tightening tools is possible, it generally requires larger equipment and is time consuming.

The use of cutting torches or hammers and chisels can cause damage to the joint components, requires significantly longer setup and operational time, and can present a potential safety risk.

## Hydraulic Nut Splitters

Nut splitting with the Enerpac Hydraulic Nut Splitters is the safest method. It takes less time and avoids costly damage to joint components. The head design fitted with heavy-duty chisels permits the splitting of nuts on a wide variety of applications.

## NSC NSH Series



Bolt Range:

**M12 - M48**

Hexagon Nut Range:

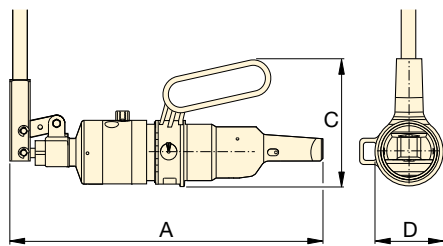
**19 - 75 mm**

Capacity:

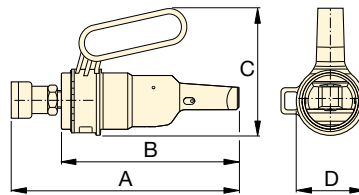
**120 - 500 kN (12 - 50 ton)**

Maximum Operating Pressure:

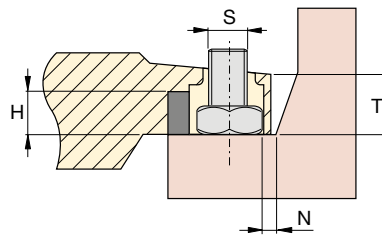
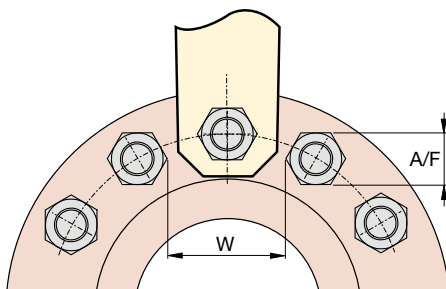
**700 bar (NSH-Series)**



NSC



NSH



## High Pressure Hoses

Enerpac offers a complete line of high quality hydraulic hoses. To ensure the integrity of your system, specify only genuine Enerpac hydraulic hoses.

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## Joint Separation Tools

Flange Spreading Wedges (FSC, FSH, FSM-Series) provide quick and easy joint separation using hydraulic or mechanical force.

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## ▼ NUT SPLITTER SPECIFICATIONS

| Bolt Range | Hexagon Nut Range | Maximum Cutting Force | Oil Capacity | Model Number | Nut Splitter Type | Dimensions (mm) |     |     |     |        |        |        |      |        |      |  | Cutting Tip Service Kit Model Nr. |
|------------|-------------------|-----------------------|--------------|--------------|-------------------|-----------------|-----|-----|-----|--------|--------|--------|------|--------|------|---|-----------------------------------|
|            |                   |                       |              |              |                   | A               | B   | C   | D   | H max. | N min. | S max. | T    | W min. | (kg) |   |                                   |
| (mm)       | A/F (mm)          | ton (kN)              | (cm³)        |              |                   |                 |     |     |     |        |        |        |      |        |      |   |                                   |
| M12 - M18  | 19 - 27           | 12 (120)              | –            | NSC1927      | Integral pump     | 353             | –   | 152 | 81  | 18     | 11,5   | 24,5   | 26,5 | 53,5   | 5,8  | NSH1927CTK  |                                   |
| M16 - M22  | 24 - 32           | 15 (150)              | –            | NSC2432      |                   | 370             | –   | 152 | 81  | 25     | 9,0    | 26,6   | 32,0 | 57,5   | 6,3  | NSH2432CTK  |                                   |
| M12 - M18  | 19 - 27           | 12 (120)              | 46           | NSH1927      | Hydraulic         | 258             | 213 | 152 | 81  | 18     | 11,5   | 24,5   | 26,5 | 53,5   | 3,5  | NSH1927CTK  |                                   |
| M16 - M22  | 24 - 32           | 15 (150)              | 46           | NSH2432      |                   | 265             | 220 | 152 | 81  | 25     | 9,0    | 26,5   | 32,0 | 57,5   | 4,0  | NSH2432CTK  |                                   |
| M24 - M30  | 36 - 46           | 20 (200)              | 80           | NSH3646      |                   | 290             | 239 | 169 | 93  | 34     | 16,0   | 39,0   | 44,0 | 83,5   | 6,9  | NSH3646CTK  |                                   |
| M33 - M42  | 50 - 65           | 36 (360)              | 230          | NSH5065      |                   | 377             | 322 | 210 | 185 | 45     | 23,0   | 49,5   | 52,0 | 108,0  | 10,9 | NSH5065CTK  |                                   |
| M42 - M48  | 65 - 75           | 50 (500)              | 328          | NSH6575      |                   | 396             | 345 | 220 | 202 | 54     | 27,0   | 61,0   | 65,0 | 135,0  | 24,5 | NSH6575CTK  |                                   |

Ordering Notes: Maximum allowable hardness to split is ASTM A194 Gr 2H. Not to be used on square nuts or stainless steel.



▼ Shown: NSH31 with NSPH3, NSH41 with NSPH4



- Designed to fit standard BS/ANSI flanges
- Blade positioning scale to eliminate bolt damage
- Adjustable cutting depth
- Ergonomically designed and positioned handle
- Interchangeable power heads with cutting blade
- Single-acting spring return power head (NSPH)
- Double-acting power head (NSPH-D) for subsea operation
- Nut splitters include spare chisel, spare set screw and wrench used to secure the chisel
- CR400 female half coupler standard on NSPH
- CR400 + CH604 couplers standard on NSPH-D.

#### ATEX certified

- All NSH cutting head and NSPH power head combinations are CE - ATEX certified.

## Versatile, reliable and trouble free operation



#### Blade Positioning Scale

The power head can be adjusted to preset the blade cutting distance in order to prevent damage to the bolt thread as the nut is cut.

The blade positioning scale can be used with the following bolt and nut forms:

- Unified bolt threads (UN) with heavy series hexagon nuts;
- Metric bolt threads (M) with standard series hexagon nuts.



#### Steel Hand Pumps

The **P80** and **P84** two speed hand pumps are ideal to operate nut splitters. The P84 can be used to power the double-acting tools.

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#### High Pressure Hoses

Enerpac offers a complete line of high quality hydraulic hoses. To ensure the integrity of your system, specify only genuine Enerpac hydraulic hoses.

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# Single- and Double-Acting Hydraulic Nut Splitters



## Hydraulic Nut Splitters

These Hydraulic Nut Splitters are the ideal tools for removing seized and corroded nuts, eradicating the need for unsafe grinding or flame cutting.

They are designed with a single acting spring return cylinder and boast a 360 degree rotation, lockable handle improving operator safety.

The heavy duty blades can also be easily removed to enable replacement blades to be fitted.

## Operator Safety

To improve operator safety an ergonomic, adjustable handle is available which can be easily fitted to the Nut Splitter. This lightweight, durable accessory can prevent injuries such as trapped fingers by eliminating the need to hold the tool itself.

## ATEX Certified: Ex II 2 G c T6

These Nut Splitters are tested and certified to conform to the 94/9/EC "ATEX Directive". The explosion protection is for Equipment Group II, Equipment Category 2 (Hazardous Zone Area 1) in Gas and/or Dust atmospheres.

## NSH Series



Bolt Range:

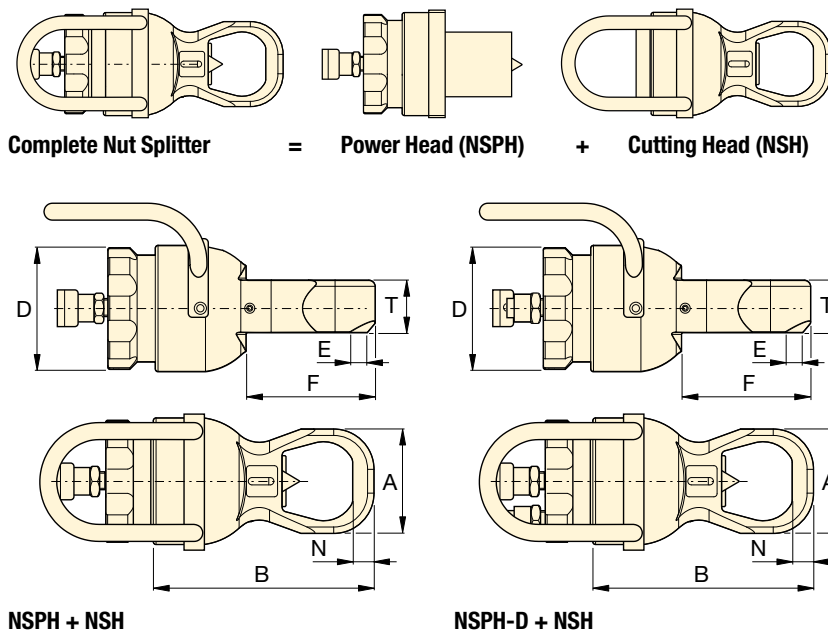
**M45 - M90**

Hexagon Nut Range:

**70 - 130 mm**

Maximum Operating Pressure:

**700 bar**






## Joint Separation Tools

Flange Spreading Wedges (FSC, FSH, FSM-Series) provide quick and easy joint separation using hydraulic or mechanical force.

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| For Power Head Model Nr. |        | Cutting Tip Service Kit Model Nr. |
|--------------------------|--------|-----------------------------------|
| NSPH3                    | NSPH3D | NSPH3CTK                          |
| NSPH4                    | NSPH4D | NSPH4CTK                          |

## ▼ NUT SPLITTER SPECIFICATIONS

| Bolt Range | Hexagon Nut Range | Maximum Cutting Force | Oil Capacity | Model Numbers<br>Nut Splitter Components |   |               |               |   | Dimensions (mm) |     |     |     |     |    |     | <br>Cutting + Power Head (kg) |
|------------|-------------------|-----------------------|--------------|--|---|---------------|---------------|---|-----------------|-----|-----|-----|-----|----|-----|--|
|            |                   |                       |              | Cutting Head                             |  | Power Heads   |               |  | A               | B   | D   | E   | F   | N  | T   |  |
| (mm)       | (mm)              | ton (kN)              | (cm³)        |  | (kg)  | Single-acting | Double-acting | (kg)  |                 |     |     |     |     |    |     |  |
| M45 - M52  | 70 - 80           | 105 (1025)            | 550          | NSH31                                    | 20  | NSPH3         | NSPH3D        | 22  | 132             | 308 | 190 | 7   | 189 | 28 | 81  | 42   |
| M45 - M56  | 70 - 85           | 105 (1025)            | 550          | NSH32                                    | 21  | NSPH3         | NSPH3D        | 22  | 145             | 323 | 190 | 15  | 200 | 30 | 81  | 43   |
| M45 - M64  | 70 - 95           | 105 (1025)            | 550          | NSH33                                    | 22  | NSPH3         | NSPH3D        | 22  | 160             | 331 | 190 | 11  | 200 | 32 | 81  | 44   |
| M45 - M70  | 70 - 100          | 105 (1025)            | 550          | NSH34                                    | 22  | NSPH3         | NSPH3D        | 22  | 174             | 342 | 190 | 11  | 204 | 35 | 81  | 44   |
| M76 - M80  | 110 - 115         | 178 (1733)            | 1100         | NSH41                                    | 32  | NSPH4         | NSPH4D        | 38  | 189             | 365 | 235 | 4,5 | 230 | 36 | 111 | 70   |
| M76 - M90  | 110 - 130         | 178 (1733)            | 1100         | NSH42                                    | 44  | NSPH4         | NSPH4D        | 38  | 219             | 393 | 235 | 3   | 246 | 36 | 111 | 82   |

Ordering Notes: Maximum allowable hardness to split is ASTM A194 Gr 2H. Not to be used on square nuts or stainless steel.